This cartridge should be mounted using the aluminium screws with the titanium washers. These screws together with the copper nuts at the cartridge and the special damping between cartridge corpus and the mounting shell containing the connectors have been tuned sonically with the internal wiring of the cartridge to create a unique musical instrument.

Mounting the Cartridge

Mount the cartridge into the head shell with the mounting screws sitting in about the middle of the slotted mounting holes in the head shell. Make sure that the sides of cartridge and head shell run parallel to each other. We recommend using an adjustment template, preferably a Dennesen Geometric Soundtracktor. Move the tone arm with it´s height adjustment screw until it is parallel to the turntable, and then align the stylus according to the markings on the template (Geopoint). The tracking force at the stylus tip should be between 1.8 and 2 g, not more or less if possible. The antiskating adjustment at your tone arm should not be set at this point.
To adjust azimuth take a strong magnifying glass (at least 10X) and look at the stylus tip exactly from the front. The triangle of the diamond stylus tip should point straight down.

If a correction is necessary, **exercise extreme caution** when inserting a piece of 0.8 mm diameter steel wire into the small lateral drill hole at the end of the round rod that presses the coils onto the rubber damper. By turning the rod in minute increments (without loosening the tiny set screws at the cartridge) you also turn transducer and cantilever and with it the diamond tip. Please adjust until the triangle at the tip of the diamond stylus points straight down.

To adjust the horizontal tracking angle (HTA) loosen one of the two mounting screws on top of the head shell enough to turn the cartridge in minute increments inward or outward. To check the result you must re-tighten the screw every time. Check by playing a very familiar tune about one to two centimeters in from the beginning of a LP- record. Most revealing would be a solo voice recorded in the center of the stereo image. If the voice is slightly to the left of center the cartridge should be turned ever so slightly inwards towards the center spindle. The increments may be so slight that the naked eye could not detect any change. If the sound gets too soft and the image too hazy the cartridge as a whole should be moved slightly forward. Consequently, if the sound gets brittle it should be moved slightly back. These adjustments should be checked again after the cartridge is broken in. Please note that the setting for antiskateing will also slightly influence HTA. Hence, changing the antiskating force amounts to a small adjustment in HTA.

Now adjust the vertical tracking angle (VTA). If you determine that after the correct setting of the horizontal tracking angle highs are too dull and bass is too plump and uncontrolled the VTA must be increased. You do that by raising the tone arm in the mounting sleeve, again in very small increments. If the sound becomes glassy you've raised the arm too much. At the correct setting highs sound natural and transparent and bass runs sound bouncy and sonorous.

To underscore the point again: Any adjustments which change the basic geometric setting that was determined by using a template or a Dennesen Soundtracktor should be done with great care and in very small increments. Otherwise it is easy to loose track and get further and further away from the desired results.

Recommendation

If there occure problems obtaining a Dennesen Geometric Soundtracktor, please refer to Wally Malewicz, manufacturer of Wally turntable set-up tools, USA.
E-mail : wwmalewi@aol.com

Some technical details

weight :	approx. 11 grams
sensitivity :	0.21mV (1cm / sec)
frequency response :	20Hz ... 30kHz
frequency intermodulation :	< 0.5%
vertical tracking angle :	23°
crosstalk :	> 25dB (1kHz)
compliance :	15μm / mN
stylus :	diamond, v.d.Hul shape, tip : 4μm
tracking force :	18 ... 20mN
recommended load :	600 ohms

the values shown on the attached chart will be reached by 22° C and a tracking force of 20mN with the test record LB210, frequency response (left channel top) and crosstalk at 1kHz.

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